CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP.

12th December 2017

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Construction of RCC drain form Masidi circle to Eswarappa house in ward No. 02 of Yelahanka Sub Division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 20mm ↓ Graded

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of RCC drain form Masidi circle to Eswarappa house in ward No. 02 of Yelahanka Sub Division.
Name of the Agency	M/s. K.R.I.D.L.
Date of Testing	12/12/2017
Specific Gravity	**2.61**
Water Absorption	**0.29%**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2016), IS : 2386 (Part III)–1963 (Reaffirmed 2016)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS 383 : 2016	Remarks
40	**100**	100	**Satisfies the requirement**
20	**96.8**	90-100	
10	**48.2**	25-55	
4.75	**8.3**	0-10	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

Khushboo

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 40mm ↓ Graded

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of RCC drain form Masidi circle to Eswarappa house in ward No. 02 of Yelahanka Sub Division.
Name of the Agency	M/s. K.R.I.D.L.
Date of Testing	12/12/2017
Specific Gravity	**2.68**
Water Absorption	**0.31%**
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2016), IS : 2386 (Part III)-1963 (Reaffirmed 2016)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS 383 : 2016	Remarks
80	**100**	100	**Satisfies the requirement**
40	**97.3**	90-100	
20	**50.6**	30-70	
10	**29.3**	10-35	
4.75	**3.8**	0-5	

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TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of RCC drain form Masidi circle to Eswarappa house in ward No. 02 of Yelahanka Sub Division.
Name of the Agency	M/s. K.R.I.D.L.
Date of Testing	12/12/2017
Specific Gravity	2.58
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2016), IS : 2386 (Part III)-1963 (Reaffirmed 2016)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS 383 : 2016				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	100	100	100	100	100	II	Satisfies the requirement
	4.75	96.4	90-100	90-100	90-100	95-100		
	2.36	83.6	60-95	75-100	85-100	95-100		
	1.18	66.3	30-70	55-90	75-100	90-100		
	0.6	46.9	15-34	35-59	60-79	80-100		
	0.3	26.6	5-20	8-30	12-40	15-50		
	0.15	8.4	0-10	0-10	0-10	0-15		

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of RCC drain form Masidi circle to Eswarappa house in ward No. 02 of Yelahanka Sub Division.
Name of the Agency	M/s. K.R.I.D.L.
Date of Testing	12/12/2017

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	49	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	IS-4031 (Part-5) 1988	VICAT	489	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	IS-4031 (Part-3) 1988	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 12 mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of RCC drain form Masidi circle to Eswarappa house in ward No. 02 of Yelahanka Sub Division.
Name of the Agency	M/s. K.R.I.D.L.
Date of Testing	12/12/2017
Grade of Steel	Fe - 500

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.6	12	Satisfactory
5	Yield Stress(N/Sq.mm)	506	500	Satisfactory
6	U T S (N/Sq.mm)	562	545	Satisfactory

Note:
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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 10mm

& Address e Customer	AEE, Yelahanka Sub Division, BBMP.
ıe of Work	Construction of RCC drain form Masidi circle to Eswarappa house in ward No. 02 of Yelahanka Sub Division.
ne of the ency	M/s. K.R.I.D.L.
ate of Testing	12/12/2017
Grade of Steel	Fe - 500

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.619	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	17.2	12	Satisfactory
5	Yield Stress(N/Sq.mm)	510	500	Satisfactory
6	U T S (N/Sq.mm)	567	545	Satisfactory

Note:

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Khushboo

(KHUSHBOO L.)
Quality Manager

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